QC ABSTRACT

Nameof Work: Pipeline park maintenance in ward No.13 in Shettyhalli Sub Division

SI. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	Materials	–	1	1	Cement	One Test Per Lot
					Sand, Aggregates	
2	Slab 100mm	68.40 Sqm	1	1	Concrete Cube Compressive Strength	-
3	Slab 250mm	–	1	1	Concrete Cube Compressive Strength	-

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CIVIL ENGINEERS BANGALORE

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/DVK/W.No.13/2021-22 Date: 06.01.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri D V Kumar,** Contractor, Bangalore.
NAME OF THE WORK	:	Pipeline park maintenance in ward No.13 in Shettyhalli Sub Division – Call - 3
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		Dec - 2021
DATE OF TESTING		04.01.2022 to 06.01.2022
SAMPLES SUPPLIED BY	:	AGENCY

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The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

Note:

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Job No.: CACE/BBMP/DVK/W.No.13/2021-22 Date : 06.01.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri D V Kumar,** Contractor, Bangalore.

Name of Work : Pipeline park maintenance in ward No.13 in Shettyhalli Sub Division

Date of Testing : 06.01.2022

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	13	1.30	1.30	98.7	90-100
1.18	35	3.50	4.80	95.2	70-100
600 Micron	89	8.90	13.70	86.3	40-100
300 Micron	252	25.20	38.90	61.1	5-70
150 Micron	489	48.90	87.80	12.2	0-15

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Job No.: CACE/BBMP/DVK/W.No.13/2021-22 Date : 06.01.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri D V Kumar,** Contractor, Bangalore.

Name of Work : Pipeline park maintenance in ward No.13 in Shettyhalli Sub Division,

Date of Testing : 06.01.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	136	13.60	22.00	78.0	75-100
1.18	182	18.20	40.20	59.8	55-90
600 Micron	155	15.50	55.70	44.3	35-59
300 Micron	228	22.80	78.50	21.5	8-30
150 Micron	162	16.20	94.70	5.3	0-10

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Job No.: CACE/BBMP/DVK/W.No.13/2021-22 Date: 13.01.2022

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Contractor	:	**Sri D V Kumar,** Contractor, Bangalore.
Name of Work	:	Pipeline park maintenance in ward No.13 in Shettyhalli Sub Division
No.of Sample Tested	:	03
Date of Testing	:	13.01.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.375	2329.10	1.64	0.961	32.30	16.45	17.77	17.08	21.34
2	50.00	84.00	0.389	2358.52	1.68	0.965	32.90	16.76	18.10	17.47	21.84
3	50.00	86.00	0.405	2398.43	1.72	0.970	33.50	17.06	18.43	17.87	22.34

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Job No.: CACE/BBMP/DVK/W.No.13/2021-22

Date: 13.01.2022

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Contractor	:	**Sri D V Kumar,** Contractor, Bangalore.
Name of Work	:	Pipeline park maintenance in ward No.13 in Shettyhalli Sub Division
No.of Sample Tested	:	03
Date of Testing	:	13.01.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	115.00	1.715	2344.18	1.28	0.922	112.20	17.64	19.05	17.56	21.95
2	90.00	117.00	1.769	2376.66	1.30	0.924	113.60	17.86	19.29	17.83	22.28
3	90.00	119.00	1.815	2397.48	1.32	0.927	115.20	18.11	19.56	18.13	22.66

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